

479409 TO 479411-continued

Arboretum by M. Kawase. Collected in Haboro-machi. Seed.

479412. *Fritillaria camschatcensis* (L.) Ker-Gawl. (Liliaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

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JH-33-82. Japan. US National Arboretum. 51034. Collected September 14, 1982. Sarobetsu Moor, Wakasakanai, Toyotomi-machi, Teshio-gun, Hokkaido. Lat. 45 deg. 05' N, Long. 141 deg. 43' E. Bulbs purchased from Tourist Center at Sarobetsu Moor. Cultivated. Bulbs.

479413 TO 479414. *Gaultheria niqueliana* Takeda (Ericaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

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479413. JH-119-82. Japan. US National Arboretum. 51147. Collected September 22, 1982. Garden, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Shrub evergreen, low creeping, 7-11cm tall. Leaves light green, lustrous above, lighter beneath. Fruit spongy, inflated. Rather soft, pure white, obovoid, ridged. Seed collected from one plant originally purchased from nursery. Cultivated. Seed.

479414. JH-341-82. Japan. US National Arboretum. 51361. Collected October 09, 1982. Tohoku Univ., Mt. Hakkoda Bot. Lab., Road 1, Aomori-shi, Aomori-ken, Honshu. 1050m. Lat. 40 deg. 37' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Shrub evergreen, 30-35cm tall. Leaves coriaceous, bright lustrous green above, somewhat rugose, pale beneath. Fruit white, spongy texture, nearly globose, ridged (carpels) on reddish petioles. Growing in bog near pond. Seed collected from many plants. Wild. Seed.

479415. *Heimerocallis middendorffii* Trautv. & C. A. Mey. (Liliaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington,